WHAT IS CLAIMED IS:

1. A method of assembling a tire and a wheel rim, comprising the steps of:

(1) determining a Radial Runout (RRO) value Wr1 (unit: mm) in a primary component of the RRO of the wheel rim, a phase θr1 (unit: °) of a peak position thereof, an unbalance level Wub (unit: g) of a heavy point in a weight unbalance of the wheel rim, a phase θub thereof (unit: °), a radial distance L (unit: mm) of a balance weight mounting position for correcting the weight unbalance from an axis center of the wheel rim, a weight Tt (unit: mm) of the tire, and a phase αt of a light point in the weight unbalance of the tire;

(2) determining a phase θc of a correction unbalance Wc found by the following formula (1), by using the RRO value Wr1, the phase θr1, the unbalance level Wub, the phase θub, the distance L, the weight Tt and the phase αt determined in the preceding step; and

$$\theta c = \mathrm{Tan}^{-1}[[Wub \times \mathrm{Sin}\,\theta ub + \{(Wr1 \times Tt)/(2 \times L)\} \times \mathrm{Sin}\,\theta r1]/[Wub \times \mathrm{Cos}\,\theta ub + \{(Wr1 \times Tt)/(2 \times L)\} \times \mathrm{Cos}\,\theta r1]] \quad \ldots (1)$$

(3) assembling the tire and the wheel rim in a state of aligning the phase θc of the correction unbalance Wc with the phase αt of the light point of the tire.